


Source: All Sources : Area of Law - By Topic : Patent Law : Patents : U.S. Patents : Utility, Design and Plant Patents Terms: **patno is 5812226** ([Edit Search](#))

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**Pat. No. 5812226, \*****5,812,226**◆ GET 1st DRAWING SHEET OF 13

Sep. 22, 1998

Liquid crystal display formed by a plurality of non-electrically interconnected liquid crystal display panels

**REISSUE:** Reissue Application filed Sep. 21, 2000 (O.G. Nov. 7, 2000) Ex. Gp.: 2871; Re. S.N. 09/667,427**INVENTOR:** Izumi, Yoshihiro, Kashihara, Japan  
Fujiwara, Sayuri, Nara, Japan  
Shinomiya, Tokihiko, Nara, Japan**ASSIGNEE-AT-ISSUE:** Sharp Kabushiki Kaisha, Osaka, Japan (03)**APPL-NO:** 868,481**FILED:** Jun. 3, 1997**FOR-PRIOR:**Sep. 2, 1994 Japan 6-210216  
Feb. 17, 1995 Japan 7-029395**REL-US-DATA:**

Continuation of Ser. No. 468,649, Jun. 6, 1995 now abandoned

**INT-CL:** [6] G02F 1#133**US-CL:** 349#73**CL:** 349**SEARCH-FLD:** 359#82, 83, 64, 53; 349#73**REF-CITED:****U.S. PATENT DOCUMENTS**

4,408,836	10/1983	*	Kikuno	359#82
4,515,440	5/1985	*	Mosier	359#84
4,591,240	5/1986	*	Masaki et al.	359#67
4,733,948	3/1988	*	Kitahara	359#67
4,906,071	3/1990	*	Takahara et al.	359#82
5,106,197	4/1992	*	Ohuchida et al.	359#83
5,164,853	11/1992	*	Shimazaki	359#82

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## **Questel-Orbit Results:**

I/1 LGST - (C) LEGSTAT

PN - US 5812226 [US5812226]

AP - US 868481/97 19970603 [1997US-0868481]

DT - US-P

ACT - 19970603 US/AE-A

APPLICATION DATA (PATENT)

{US 868481/97 19970603 [1997US-0868481]}

- 19980922 US/A

PATENT

- 20001107 US/RF

REISSUE APPLICATION FILED

20000921

UP - 2000-45

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I/1 PAST - (C) PAST

AN - 200045-001232

PN - 5812226 A [US5812226]

DT - A (UTILITY)

OG - 2000-11-07

CO - REA

ACT - REISSUE APPLICATION FILED

SH - REISSUE APPLICATION FILED

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I/1 CRXX - (C) CLAIMS/RRX

AN - 3044522

PN - 5,812,226 A 19980922 [US5812226]

PT - E (Electrical)

PA - Sharp K K JP

ACT - 20000921 REISSUE REQUESTED

Issue Date of O.G.: 20001107

Reissue Request Number: 09/667427

Examination Group responsible for Reissue process: 2871

UP - 2000-45

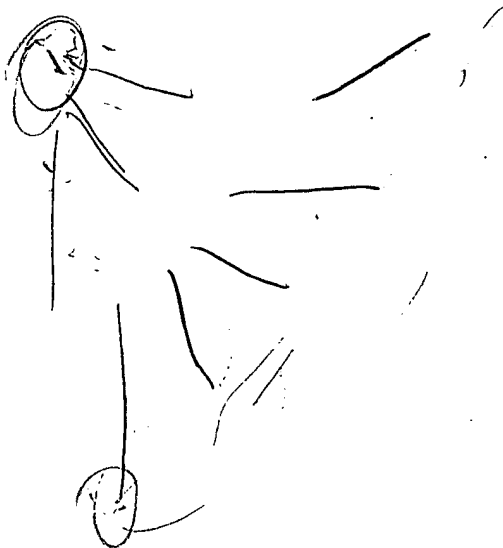
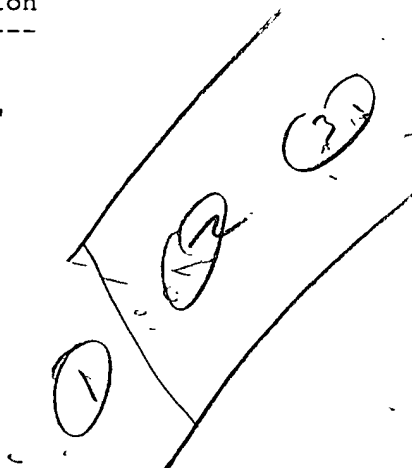
UACT- 2000-11-07

File 345:Inpadoc/Fam.& Legal Stat 1968-2000/UD=200050  
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Set	Items	Description
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? e	pn=us 5812226	
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S1	1	PN="US 5812226"
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DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
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13050789

Basic Patent (No,Kind,Date): CN 1120178 A 19960410 <No. of Patents: 004>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
CN 1120178	A	19960410	CN 95108323	A	19950606	(BASIC)
JP 8122769	A2	19960517	JP 9529395	A	19950217	
KR 177050	B1	19990501	KR 9515104	A	19950605	
US 5812226	A	19980922	US 868481	A	19970603	

Priority Data (No,Kind,Date):

JP 94210216 A 19940902  
JP 9529395 A 19950217  
US 868481 A 19970603  
US 468649 B1 19950606

PATENT FAMILY:

CHINA (CN)

Patent (No,Kind,Date): CN 1120178 A 19960410

LIQUID CRYSTAL DISPLAY (English)

Patent Assignee: SHARP KK (JP)

Author (Inventor): IZUMI YOSHIHIRO (JP); FUJIWARA SAYURI (JP);  
SHINOMIYA TOKIHIKO (JP)

Priority (No,Kind,Date): JP 94210216 A 19940902; JP 9529395 A  
19950217

Applic (No,Kind,Date): CN 95108323 A 19950606

IPC: \* G02F-001/1336

CA Abstract No: \* 125(08)100413E

Derwent WPI Acc No: \* G 96-291137

Language of Document: Chinese

JAPAN (JP)

Patent (No,Kind,Date): JP 8122769 A2 19960517

LIQUID CRYSTAL DISPLAY DEVICE (English)

Patent Assignee: SHARP KK

Author (Inventor): IZUMI YOSHIHIRO; FUJIWARA SAYURI; SHINOMIYA  
TOKIHIKO

Priority (No,Kind,Date): JP 9529395 A 19950217; JP 94210216 A  
19940902

Applic (No,Kind,Date): JP 9529395 A 19950217

IPC: \* G02F-001/1347; G02F-001/1339; G02F-001/1335

CA Abstract No: \* 125(08)100413E; 125(08)100413E

Derwent WPI Acc No: \* G 96-291137; G 96-291137

Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 177050 B1 19990501

LIQUID CRYSTAL DISPLAY FORMED BY A PLURALITY OF NON-ELECTRIC ALLOY  
INTERCONNECTED LIQUID CRYSTAL DISPLAY PANELS (English)

Patent Assignee: SHARP KK (JP)

Author (Inventor): IZUMI YOSHIHIRO (JP); FUJIWARA SAYURI (JP);  
SHINOMIYA TOKIHIKO (JP)

Priority (No,Kind,Date): JP 94210216 A 19940902; JP 9529395 A  
19950217

Applic (No,Kind,Date): KR 9515104 A 19950605

IPC: \* G02F-001/133

CA Abstract No: \* 125(08)100413E

Derwent WPI Acc No: \* G 96-291137

Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5812226 A 19980922  
LIQUID CRYSTAL DISPLAY FORMED BY A PLURALITY OF NON-ELECTRICALLY  
INTERCONNECTED LIQUID CRYSTAL DISPLAY PANELS (English)  
Patent Assignee: SHARP KK (JP)  
Author (Inventor): IZUMI YOSHIHIRO (JP); FUJIWARA SAYURI (JP);  
SHINOMIYA TOKIHIKO (JP)  
Priority (No,Kind,Date): US 868481 A 19970603; JP 94210216 A  
19940902; JP 9529395 A 19950217; US 468649 B1 19950606  
Applic (No,Kind,Date): US 868481 A 19970603  
National Class: \* 349073000  
IPC: \* G02F-001/133  
CA Abstract No: \* 125(08)100413E  
Derwent WPI Acc No: \* G 96-291137  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5812226	P	19940902	US AA	PRIORITY (PATENT)
			JP 94210216 A	19940902
US 5812226	P	19950217	US AA	PRIORITY (PATENT)
			JP 9529395 A	19950217
US 5812226	P	19950606	US AA	PRIORITY
			US 468649 B1	19950606
US 5812226	P	19970603	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 868481 A	19970603
US 5812226	P	19980922	US A	PATENT
US 5812226	P	20001107	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20000921	